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GASTROENTEROLOGY

Volume 4

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Volume I

EXAMINATION OF THE PATIENT DISORDERS OF THE ESOPHAGUS AND STOMACH

Volume II

THE SMALL INTESTINE AND COLON CHRONIC INFLAMMATORY DISEASES OF THE INTESTINE

Volume III

THE LIVER, GALLBLADDER, BILE DUCTS AND PANCREAS

Volume IV

PERITONEUM, PARASITIC DISEASES SYSTEM INTERRELATIONSHIPS

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PREFACE

Approximately 30 years ago the first edition of this text appeared. At that time gastroenterology had already been generally recognized as an integral part of internal medicine. The subspecialty, gastroenterology had arrived. The second edition appeared 20 years later. The interval between the publication of the second and this present edition has been only 10 years. This can be taken to indicate that a great deal that is new has been added to our knowledge of digestive tract affections and nutrition during this past decade. It was for this reason that the decision was made to rewrite. The term "rewrite" is used advisedly. Merely editing was not sufficient, as there is so much that is new. The previous editions have been well received. Our comprehensive review of digestive tract disorders has evidently appealed not only to practitioners, clinicians, surgeons and radiologists but to students, residents and basic scientists as well. We like to think that the present work is encyclopedic without being ponderous.

Both the earlier editions were authored by previous and contemporary members of the University of Pennsylvania medical family—faculty and previous trainees. With this edition, that policy has been abandoned, although a number of the former contributors will be found among the present list of authors. Contributors to this edition have been selected on the basis of reputable expertise, wherever they may be, in the U.S.A. or abroad. An effort has been made to obtain the most knowledgeable person available for each topic.

Authors include not only clinicians but basic scientists, surgeons, radiologists, psychiatrists, endoscopists and research workers. Surgical techniques are not detailed, but indications for operation and the physiologic basis for selection of the type of operation when indicated are fully discussed.

In spite of the fact that contributors are from many different schools, clinics and countries, the reader will note considerable continuity of content and correlation of material from one chapter to another. All contributors were familiar with the entire list of chapters. Repetition of material has been avoided. Throughout the work the editors have endeavored to correlate similar themes and chapters by cross references from one chapter to another; this is not just a group of independent contributions, as is so often characteristic of multiply authored texts of this scope.

The tone of the present edition continues to be clinical. However, basic concepts and origins are stressed. We believe a careful balance is maintained between origins—basic, anatomic, physiologic, biochemical and pathologic—on the one hand, and clinical data—diagnostic, therapeutic (including surgical)—on the other. It is hoped that students will find here the basic scientific data applicable to the clinical problem in which they are interested.

There is an appraisal of the old and proved, as well as the new—with promise of proof. It is not a treatise on controversies, but divergent opinions on active topics are not excluded. The reader will find the art of medicine emerging within

the context of the scientific presentation. The person as well as the disease is given consideration throughout.

The material will be published in 4 volumes of approximately 1000 pages each. It is hoped that the increase from 3 to 4 volumes with this edition will make it possible to maintain a size of book that may be handled with ease.

Ample references will be found ordinarily at the end of the chapter. When several topics are discussed in one chapter, the references are usually placed at the end of each topic. This occurs most often when a chapter is separated into parts contributed by different authors. If there is a fault concerning references it is that they often seem too numerous. However, this is a reference book, so contributors were not asked to economize space at the expense of an adequate bibliography.

In a reference book of this size and type it is important that the reader locate the item of his concern easily. With this in mind we have continued to list an outline of the content of each chapter at the beginning of the chapter. In addition we have insisted upon a comprehensive index. The index of each volume will be found at the end of that volume. For the neophyte and the uninitiated, a list of permissible abbreviations appearing in the text is given in an appendix at the end of Volume I.

Illustrative material has been utilized freely. The policy has been: better no figure than a poor one, but illustrations, both in color and in black and white, will not be found lacking.

Essentially the same policy has been followed in this edition insofar as the arrangement of the content of each volume is concerned. The sequence is:

- Volume I: Examination of the Patient; Disorders of the Esophagus and Stomach.
- Volume II: The Small Intestine and Colon; Chronic Inflammatory Diseases of the Intestine.
- Volume III: The Liver, Gallbladder, Bile Ducts and Pancreas.
- Volume IV: The Peritoneum, Mesentery and Omentum; Parasitic Diseases; Gastrointestinal Interrelationships; Special Topics.

The topics are presented in an orderly sequential fashion. An ambitious student could set up a reading program from beginning to end and, we believe, he or she will have reviewed the whole of gastroenterology rather fully. Indeed, this may be desirable for students in medical schools where lectures for purposes of correlation have been largely abandoned.

There are 38 additional chapters in this third edition, made necessary by the tremendous additions to our knowledge in many of the facets of gastroenterology. Anatomic knowledge has been advanced by biopsy techniques and electron microscopy. In the area of physiology significant additions to an understanding of gastrointestinal enzymes and hormones and of absorption and assimilation have been forthcoming. The relation of immunology, genetics and epidemiology to gastroenterology has been receiving renewed interest. In the area of diagnosis ultrasound is being evaluated; endoscopy has probed still further into the gut both above and below, and has been combined with biopsy and radiologic techniques. In the expanding field of imaging, radiologists have employed angiography, scintillography and echography with tremendous effectiveness. In surgery, organ transplantation and therapeutic nutritional supplements (parenteral and alimentary) are receiving renewed interest. Therapeutic innovations have occurred

in many areas during this past decade. Indeed, the addition of so much that is new and exciting in the whole area of gastroenterology has made this task of review and evaluation a most pleasurable and rewarding one.

This third edition would not have been possible, nor would it have been attempted without the valued expert help of the associate editors. All of them were at one time at home base here at the Graduate Hospital. Each of them is now a leader at his present station. Individually they have established an enviable reputation in research. And, in addition, they are well recognized teachers and remain active in clinical practice. They were invited to join this team because of this well rounded background in research, teaching and practice, a triad of achievement essential to a task of this nature. Needless to say, the ship would not have gone to sea if they had not come aboard. In addition to their help and advice in the preparation of the work as a whole, each associate editor has had a specific editorial assignment, based upon his area of expertise.

Again my deep appreciation for the indulgence of my wife, and sincere thanks for the lightening of the chore by my office assistant Miss Judy Foley. The editors and staff of the Saunders Company have continued to advise and cooperate to the fullest. This relationship has remained an ideal one through the many years of preparation of the three editions of this text.

H. L. BOCKUS

CONCERNING VOLUME IV

In order to keep the size of each volume reasonable for handling and because of the need to add so much that is new, it was decided to publish this third edition in four volumes. Section X deals with affections of the peritoneum, mesentery and omentum. Included here are chapters on the acute abdomen, familial recurring polyserositis, peritoneoscopy and lymphangiography. A new chapter has been added concerned with a comprehensive classification and description of retroperitoneal affections.

Section XI is devoted to gastrointestinal parasites. They continue to constitute a serious health menace in many parts of the globe and must be considered in the interpretation of abdominal symptomatology throughout the world. The chapters are well illustrated to assist in microscopic diagnosis. Therapy is comprehensively described. Amebiasis and schistosomiasis have been assigned separate chapters because of their worldwide importance.

In Section XII will be found a discussion of gastroenterologic interrelationships with other organ systems. This remains an area of great interest to all diagnosticians regardless of their "system" affiliation. Chapters concerned with the role of psychiatry in gastroenterology and the orientation of functional disorders will be found here. Cardiovascular, endocrinologic, dermatologic and genitourinary interrelationships with gastroenterology are again included and brought up to date. New chapters are devoted to gastrointestinal manifestations of neurologic and pulmonary disorders and vice versa. The chapter on vascular diseases of the gut has been rewritten, obviously demanded by our vastly increased knowledge of ischemic disease of the gut. Oral manifestations of gastrointestinal affections have been relocated in this volume.

In the final Section XIII there is a potpourri of topics, many of great interest and importance. New chapters on ultrasound and on minilaparotomy are included. Here will be found an authoritative discussion of a procedure considered by many to be the greatest advance in x-ray diagnosis since Roentgen's discovery. This chapter on Computerized Axial Tomography (CAT) will describe its application to problems of diagnosis within the abdomen. Other new chapters, one devoted to gastrointestinal hormones and another to hypoglycemia, are in this section. Chapters concerned with anemia and with nutrition in gastroenterology are now located here. Certain specific constitutional disorders as they relate to gastroenterology will be found here also, including collagen disorders, arthritis, diabetes and amyloidosis. Since the publication of the second edition of this text our understanding of immunology and allergy and of genetics and heredity has been greatly expanded. Chapters dealing with their application in gastroenterology are in this section. Included also are separate chapters devoted to radiation therapy and to

the clinical management and chemotherapy in advanced malignant disease of the alimentary tract. Chapters on gastrointestinal gas and food poisoning will be found in this section, as well as a discussion of the psychogenic aspects of iatrogenesis in gastroenterology.

To the 200 authorities who have contributed their expertise to these volumes must go the credit for the completed structure. It is hoped that our purpose has been served, that of updating an encyclopedic reference work in gastroenterology in all of its multitudinous guises. If the work helps to diffuse our present knowledge of digestive tract affections throughout the world, our objective will have been accomplished. I should like, again, to express my deep appreciation and gratitude to the associate editors for making this task possible.

H. L. Bockus

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